#### PHOTON TYPE 560

## PHOTO UNIT AND CONTROL CIRCUIT FOR COMPUTER-GENERATED TAPE

#### Purpose

The Type 560 Photon is an inexpensive version of the standard Photon. It can process 8-level tape as generated by computer or peripheral equipment to produce excellent typography on photographic film or paper. All the versatility of the Standard Photon are included in type 560 which can mix any of 16 type faces in any point sizes from 4 to 72 with leading variations as minute as one tenth of a point.

#### General Description

The Photon 560 includes:

-A standard Photographic Unit with 12 lenses and a removable inverting prism for the selection of right or wrong reading composition.

-A Transcription Rack comprising a tape reader and its controls and modified 540 transcription circuits.

-A Control Panel attached to the transcription rack. The manual controls and warning lights are as follows:

ON-OFF Switch LEADING SELECTION switches RESET switch STOP (at end of line) switch CONTINUOUS LEADING button FORWARD-REVERSE leading switch Resettable LEADING COUNTER Resettable LINE COUNTER Fuse lights Trouble shooting lights W. J. light No film light Tape trouble light Disc level indicating lights Half turn indicating light Lens Turret position lights

#### Paper Tape Format

All the available codes are listed in attached sheets. The eighth-level code "Z" will appear with any two-frame group defining a character, a space or a function. This perforation is utilized to synchronize the tape reader.

The 560 machine performs no justification calculations. These must be carried out by the computer or data processor. Justification is obtained by the proper selection of spacing codes between words (normal justification) or between letters (letter specing) or at the beginning of a line (flush right) or at the beginning and end of a line (center) by the computer independently of Photon 560 equipment.

#### Specifications

Quality of product and performance are the same as in the 200 or 540 Photon.

Characters are projected at the rate of 10 per second up to and including 18 point type.

Maximum length of line: 9" for wrong reading material, and 7" for right reading material (or vice versa on special request).

To obtain large sizes (above 28 set) use the double set code. All the following characters should have a width code equal to one half of their actual width.

## PHOTON TYPE 560

FIXED SPACES	ZERO SET CHARACTER
1 KU 128 1/2 KU 64	Identity Code Only
1/4 KU 32 1/8 <b>K</b> U 16 1/16 KU 8 1/32 KU 4	NON PHOTO CHARACTER
1/64 KU 2	Width Code Only
DISC LEVEL  1 SCFG 2 SCEG 3 SCG	DOUBLE SET SEF SINGLE SET SE
3 SCG 4 SCEF 5 SCF	LENS SHIFT
6 SCE 7 SC 8 SCEFG	Location 1 SBE 2 SBF 3 SBEF 4 SBG
9 SCDFG 10 SCDEG 11 SCDG 12 SCDEF 13 SCDF	5 SBEG 6 SBDE 7 SBDF 8 SBDEF 9 SBDEG
14 SCDE 15 SCD 16 SCDEFG	10 SBC+any EFG 11 SBCD+any EF 12 SBCDG+ any EF
W. J. CHECK	PI-MAT
S Alone Plus Complement to 510 Except 2	Position 1 SAG 2 SABG 3 SACG 4 SABCG
STOP CODE	5 SADG 5 SABDG 7 SACDG 8 SABCDG

## END OF LINE

SAC Normal MJ SABC ZL SAF

#### LEADING

#### Normal

1 Pt.	SA2
2 Pt	SA4
14 Pt.	SA8
8 Pt.	SALE
16 Pt.	SA32
32 Pt.	SA64

#### Additional

1	Pt.	SADE
2	Pt.	SADF
4	Pt.	EDER
8	Pt.	

## HALF-TURN SHIFT

Operate - Disc level code + or -"D" Release - Disc level

## CANCELLATION

SA

All Codes Punched

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معتب		PLUS A	,		PLUS A
S		STOP CODE	SBDG		PI-MAT 6
S		END OF LINE	SBEF SBEG	LENS T.5	
S	PUNC		SBFG		
S	E SINGLE SET (200 SERIES		SCDF SCDG	ROW 13 ROW 11	PI-MAT 7
S	F	ZERO LEADING	SDEG	, <u></u>	8 PT. AD. LEAD
S	G BC LENS T.10	PI-MAT 1 MULT-JUST	SCEF SCEG	ROW 4 ROW 2	
S	CD, ROW 15		SDFG	32 PT. LEAD	
	DE EF DOUBLE SET	1 PT. AD. LEAD	SCFG SDEFG	ROW 1	·
	(200 SERIES)		SBEFG		in a second
	FG BD		SBCFG SBCDG	LENS T.*10 LENS T.*12	PI-MAT 8
₹ S	BE LENS T.1		SBCDE	LENS T.*11	
	BF LENS T.2 BG LENS T.4	PI-MAT 2	SCE <b>FG</b> SCDFG	ROW 8 ROW 9	
S	CE ROW 6	R I FeIRI Z	SCDEG	ROW 10	4
	CF ROW 5 CG ROW 3	PI-MAT 3	SCDEF SBDFG	ROW 12	
S	OF	2 PT. AD. LEAD	SBDEG	LENS T.9	
S	OG .	PI-MAT 5	SBDEF	LENS T.*10	
	EG	1 4 1111 0	SBCEF	LENS T.*10	- 1
	BCD LENS T.11 CDE ROW 14	V	SBCDF	LENS T.*11 ROW 16	
S	DEF	PT. AD. LEAU	SBDEFG		
	EFG / BCE LENS T.* 10		SBCEFG	LENS T.*10 LENS T.*12	
	BCF LENS T.*10 BCG LENS T.*10	KILL LINE PI-MAT 4	SBCDEG SBCDEF	LENS T.*12 LENS T.*11	
	BDE LENS T.6	PI*MAI 4		LENS T.*12	
S	BDF LENS T.7		•		

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# PHOTON 560

FOR COMPUTER - GENERATED TAPE

NOV 20,63

## NOTE: Z' TO BE PART OF ANY 2 x 8 CODE

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